Appl. No. 09/765,886
Amdt. dated August 15, 2005
Reply to Office action of March 16, 2005

PATENT

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims:</u>

1.   (Currently amended)   A method for managing resources for an active computing environment comprising:

encapsulating said active computing environment into a compute capsule, the compute capsule comprising a plurality of processes and their associated system environment, <u>the encapsulating comprising partitioning an operating system so that host-dependant and personalized elements of the active computing environment are moved into the compute capsule while shared resources and a state necessary to manage them are excluded from the compute capsule;</u>

~~promoting said compute capsule to a first class object status;~~

assigning system resources to said ~~first-class object~~ <u>compute capsule,</u> thereby collectively assigning said system resources to said plurality of processes.

2.   (Previously presented)   The method of claim 1 wherein said system resources comprise a guaranteed share of resources.

3.   (Previously presented)   The method of claim 1 wherein said assigning comprises applying a resource management algorithm.

4.   (Currently amended)   The method of claim 1 wherein said assigning comprises restricting said ~~first-class object~~ <u>compute capsule</u> from accessing a network.

5.   (Currently amended)   The method of claim 1 wherein said assigning comprises restricting said ~~first-class object~~ <u>compute capsule</u> from accessing a local file system.

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6.   (Previously presented)   The method of claim 1 wherein said assigning comprises allowing user-level control over allocation of the system resources among the plurality of processes in the compute capsule.

7.   (Canceled)

8.   (Currently amended)   A system for managing computer resources, the system comprising:

a compute capsule, the compute capsule comprising a plurality of processes and their associated system environment, the compute capsule comprising host-dependant and personalized elements of the active computing environment, wherein shared resources and a state necessary to manage them are excluded from the compute capsule;

~~a first class object obtained by promoting said compute capsule to first class object status; and~~

a resource manager configured to assign system resources to said ~~first class object~~ compute capsule.

9.   (Currently amended)   The system of claim 8 wherein said resource manager assigns a guaranteed share of resources to said ~~first class object~~ compute capsule.

10.   (Currently amended)   The system of claim 8 wherein said resource manager applies a resource management algorithm to said ~~first class object~~ compute capsule.

11.   (Currently amended)   The system of claim 8 wherein said resource manager restricts network access by said ~~first class object~~ compute capsule.

12.   (Currently amended)   The system of claim 8 wherein said resource manager restricts access to a local file system by said ~~first class object~~ compute capsule.

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13.   (Previously presented)   The system of claim 8, said system allowing user-level control over allocation of the system resources among the plurality of processes in the compute capsule.

14.   (Canceled)

15.   (Previously presented)   A computer program product comprising:

a computer usable medium having computer readable program code embodied therein configured to manage resources with respect to an active computing environment, said computer program product comprising:

computer readable code configured to cause a computer to encapsulate said active computing environment into a compute capsule, the active computing environment comprising a plurality of processes and their associated system environment, the encapsulating comprising partitioning an operating system so that host-dependant and personalized elements of the active computing environment are moved into the compute capsule while shared resources and a state necessary to manage them are excluded from the compute capsule; and

~~computer readable code configured to cause the computer to promote said compute capsule to a first-class object status;~~

computer readable code configured to cause the computer to assign system resources to said ~~first-class object~~ compute capsule, thereby collectively assigning said system resources to said plurality of processes.

16.   (Previously presented)   The computer program product of claim 15 wherein said system resources comprise a guaranteed share of resources.

17.   (Previously presented)   The computer program product of claim 15 wherein said computer readable code configured to cause the computer to assign system

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resources comprises computer readable code configured to cause the computer to apply a resource management algorithm.

18.   (Previously presented)   The computer program product of claim 15 wherein said computer readable code configured to cause the computer to assign system resources comprises computer readable code configured to cause the computer to restrict network access by said ~~first class object~~ compute capsule.

19.   (Previously presented)   The computer program product of claim 15 wherein said computer readable code configured to cause the computer to assign system resources comprises computer readable code configured to restrict access to a local file system by said ~~first class object~~ compute capsule.

20.   (Previously presented)   The computer program product of claim 15 wherein said computer readable code configured to cause the computer to assign system resources comprises computer readable code configured to allow user-level control over allocation of the system resources among the plurality of processes in the compute capsule.

21.   (Canceled)